Such input interfaces **shall** implement appropriate error control techniques (i.e., parity as a minimum) to ensure that data is properly delivered to the ADS-B Receiving Subsystem control and Report Assembly functions.

2.2.15.2.1.3 Processing Efficiency

The ADS-B Receiving Subsystem input processing function **shall** be capable of efficiently processing all necessary interfaces as required for Receiver Message Processing and Report Assembly, as defined in §2.2.8.3, §2.2.9 and §2.2.10.~~data input interfaces in a manner that ensures that the most recent update received for all required data parameters is made available to the Report Assembly function.~~

2.2.15.2.2 ADS-B Receiving Subsystem Output Interfaces

2.2.15.2.2.1 Discrete Output Interfaces

Appropriate discrete outputs may be used by the ADS-B Receiving Subsystem to provide Mode Status and Failure Monitoring information to other users or monitoring equipment. When implemented, all discrete outputs **shall** provide appropriate protection, such as diode isolation, to prevent sneak current paths.

2.2.15.2.2.2 Digital Communication Output Interfaces

Appropriate Avionics Digital Communication output interfaces **shall** be implemented by the ADS-B Receiving Subsystem to provide status and data communication to other user or monitoring equipment. Such output interfaces **shall** implement appropriate error control techniques (i.e., parity as a minimum) to ensure that data is properly delivered to other user or monitoring equipment.

2.2.16 Power Interruption

The ADS-B Transmitting and/or Receiving Subsystems **shall** regain operational capability to within their operational limits within two seconds after the restoration of power following a momentary power interruption.

Note: *The ADS-B Transmitting Subsystem and/or receiving equipment is not required to continue operation during momentary power interruptions.*

2.2.17 Compatibility with Other Systems

2.2.17.1 EMI Compatibility

The ADS-B Transmitting and/or Receiving Subsystem **shall** not compromise the operation of any co-located communication or navigation equipment, or ATCRBS and/or Mode-S transponders. Likewise, the ADS-B antenna **shall** be mounted such that it does not compromise the operation of any other proximate antenna.

2.2.17.2 Compatibility with GPS Receivers

The ADS-B Transmitting and/or Receiving Subsystem **shall** not compromise the operation of a co-located proximate GPS receiver.